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TITLE : PRODUCTION OF COPPER-BASED MATERIAL FOR VACUUM VAPOR DEPOSITION

ABSTRACT : PURPOSE: To produce the high-quality copper-based material which forms a vapor deposited copper surface having no surface defects by vacuum vapor deposition by forming a casting in a reducing gaseous atmosphere by using high-purity copper, and subjecting the casting to a surface treatment under specific condition in a reducing gaseous atmosphere after working, then vacuum packing the casting.

CONSTITUTION: The copper having $\geq 99.9\%$ purity is used as a raw material and the casting of copper is formed by casting in the reducing gaseous atmosphere of gaseous CO, gaseous H_2 , etc., or in a vacuum atmosphere and is worked. The part of $\geq 50\mu$ thickness is etched off by immersing the worked casting into nitric acid and thereafter, the casting is immersed into an aq. ammonia of about $pH \geq 9$ to remove the free acid sticking thereto. This casting is dried in a temp. atmosphere of $\leq 80^\circ C$ and is immediately vacuum packed with a plastic sheet. The copper base material which stably forms the vapor deposited copper surface having no surface defects by vacuum vapor deposition is produced in this way and the quality thereof is maintained over a long period of time.

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